

Notice of Allowability	Application No.	Applicant(s)	
	09/927,834	HUANG ET AL.	
	Examiner	Art Unit	
	Cheukfan Lee	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an application for patent filed August, 10, 2001.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on August 10, 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |


Cheukfan Lee

Art Unit: 2622

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Raymond Sun on February 16, 2005. Mr. Sun agreed to amend the abstract and the claims for minor errors, lack of antecedent basis, and some languages/terminologies that are not descriptive of the function of the element or component claimed. In the Examiner's amendment for the abstract, for example, the focusing chart is not performing the automatic focusing. The chart is for assisting the automatic focusing; it is the optical chassis that does the automatic focusing.

3. **Please amend the abstract and claims as follows:**

In the abstract

Lines 8-9 of page 11, after "detecting elements", delete "and capable of" and insert – for assisting --.

In the claims (claims 1-8 and 12)

In claim 1, line 2 of the claim, change "foran" to – for an --;

lines 5 and 6 of the claim, delete "and capable of" and insert – for assisting --; and

line 6 of the claim, after "automatic focusing", delete "focus detecting".

In claim 2, line 2 of the claim, change "the plurality" to – the plurality --; and after "is", insert – a plurality of --.

In claim 3, line 3 of the claim, after "reflected", change "through" to – by --;
line 5, before "charge-coupled device", change "the" to – a --; and
before "digital", insert – electrical signals to be converted into --.

In claim 4, lines 2-3 of the claim, after "at least one", change "reflection mirror" to – of the plurality of mirrors --.

In claim 5, line 2, before "lens set", insert – a --.

In claim 6, line 2 of the claim, change "of" to – by a --.

In claim 7, line 3, after "and" at the end of the line, change "the" to – an --; and
line 4, change "provide" to – provides --.

In claim 8, line 2 of the claim, change "comprising" to – comprises --.

In claim 12, line 2 of the claim, change "comprising" to -- comprises --.

4. The following is an examiner's statement of reasons for allowance:

Claim 1 and its dependent claims 2-14 are allowable over the prior art of record because none of the prior art cited below teaches a focusing apparatus of an automatic document feeder, the focusing apparatus comprising a focusing chart disposed at a location corresponding to the scanning zone of automatic document feeder, as claim in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sheng et al. (U.S. Patent No. 6,512,602) discloses an automatic document feeder used with a flat bed scanner, in which the vertical position of the image sensor is changed to maintain equal distance between the scan surface and the image sensor (Figs. 3A and 4A and col. 3, lines 6-48). Sheng et al. does not disclose a focusing chart of the automatic document feeder as claimed in the present application.

Lin (U.S. Patent No. 6,301,061) discloses a switching device for multiple focus points of multiple optical paths in an original scanner. In one embodiment, an automatic document feeder is used in the scanner, but Lin does not disclose the claimed focusing chart disposed at a location corresponding to the scanning zone.

Inagaki (U.S. Patent No. 6,665,097) discloses an image reading apparatus for scanning a black-and-white-stripe-pattern focusing chart disposed at the same horizontal level as the scanning window. Inagaki does not disclose an automatic document feeder.


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheukfan Lee whose telephone number is (703) 305-4867. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (703) 305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cheukfan Lee
February 16, 2005


Cheukfan Lee